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MEMORANDUM FOR COLONEL JOHN L. MARTIN, JR.

SUBJECT: Brief Review of Development Work Proposed by Eastman
Kodak Company, Dated 1 August 1962

The work proposed is extremely broad in nature. The broad description of the objectives makes it impossible to separate the work into fixed categories. However, it does range from positively right and we need it soon, under the NRO; to don't know if it is needed and if it is, it isn't in the NRO charter to do it.

Category I

Research work which should be accomplished under NRO sponsorship as a Black contract.

<u>Section</u>	<u>Item</u>	<u>Estimated Cost</u>
3.2	Negative Processing	
	Improved Present Techniques Frame-by-Frame	
3.4	Titling and Lacquering (Design & Build)	
3.6	Printing Exposure Determination	
	Film Reader-Recorder Printer Control	
3.9	Waxer (Design & Build)	
3.13	Handling Extra Thin Material (Study)	
4.4	Intensification (Experiment)	
5.4	Acquisition Equipment Recommendations	

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Category II

Material outcome of production efficiency - new equipment if required should be developed under R&D contract.

<u>Section</u>	<u>Item</u>	<u>Estimated Cost</u>
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3.1	Inspection and Presplice	
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	Negative Dryer	
	Ultrasonic Splicer for Wet	
	Negative	
	Infrared Viewer	

3.3	Negative Quality Inspection & Breakdown	
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3.10	Inspect & Breakdown (Study)	
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3.11	Pack, Label and Ship (Study)	
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Category III

Being done on other contracts (not Black). EK could advise on approach and recommend changes. If not adequate, contract should be changed or new contract let with EK to supplement current work.

<u>Section</u>	<u>Item</u>	<u>Estimated Cost</u>
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3.7	Printing	
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	Exposure Control Printer	
	Contrast Control Study	
	Contrast Control Printer	
	High Density Light Source	
	Frame Detector and Counter	

3.8	Dupe Processor	
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	Semi-automatic Splicer & Roll Changer	
	Surface Defect Scanner	

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Category III (Continued)

<u>Section</u>	<u>Item</u>	<u>Estimated Cost</u>
3.8a	Reversal Tape Processor	
	Engineering Fabricate	
3.12	Chemical Mixing Study	
4.3	Image Quality Evaluation	
	Measurements Automation of Data Reduction Granularity Measurement Attachment	
5.3	Laboratory Quality Monitoring	

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Category IV

3. At least, processing a requirement exists, should be competitive and RK should be encouraged to participate.

<u>Section</u>	<u>Item</u>	<u>Estimated Cost</u>
3.5	Cleaning and Waxing	
4.2	Portable Film Processing Laboratory (Trailer)	
	Development & Engineering Prototype	
4.9	R&D Processor for Quality Control	
	Purchase Alter for Exotic Processing	

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Category V

Work which is not NRO responsibility - should be contracted for thru NPTC, DIA or the services.

<u>Section</u>	<u>Item</u>	<u>Estimated Cost</u>
4.1	<p>Image Development (Continuing Effort for Three Years)</p> <p>Labor Computer Time Samples Laboratory Equipment</p>	<div style="border: 1px solid black; width: 100%; height: 500px; position: relative;"> <div style="position: absolute; top: 0; right: 0; width: 50px; height: 50px; background-color: white;"></div> </div>
4.5	<p>Image Enhancement Techniques</p> <p>Electronic Mechanical</p>	
4.6	<p>Exploitation Equipment</p> <p>9 x 9 Enlarger Stereo Microscope Viewer O & D Printer Photo Title Archival Converter</p>	
4.7	<p>Reversal Equipment</p> <p>Engineering Build Prototype</p>	
4.8	<p>RF 40</p> <p>Engineering Build Prototype</p>	
5.1	Survey of PI Equipment and Exploitation Devices	
5.2	PI Training Study	
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